

TYPES OF CHEMICAL REACTIONS

Section A: Fill in the Blanks

Fill in the blanks below using words/phrases from the word bank below. Words may be used **once, more than once or not at all**.

WORD BANK

SINGLE DISPLACEMENT

FIVE

DECOMPOSITION

DOUBLE DISPLACEMENT

COMBINATION

ONE

TWO

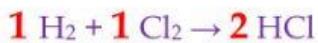
THREE

1. There are _____ major types of chemical reactions.
2. A synthesis or _____ reaction occurs when two or more substances combine to form ONE substance.
e.g. $A + B \rightarrow AB$
3. A _____ reaction occurs when a single substance breaks down into TWO or more substances.
e.g. $AB \rightarrow A + B$
4. A _____ or single replacement reaction occurs when ONE element replaces another element in a compound.
e.g. $A + BC \rightarrow AC + B$
5. A _____ or double replacement reaction occurs when the positive ions in two compounds replace each other.
e.g. $AB + CD \rightarrow CB + AD$

Section B: Identifying Combination and Decomposition Reactions

Balance the equations below. Indicate whether the reaction is a **COMBINATION** or **DECOMPOSITION** reaction by writing in the appropriate word under type of chemical reaction.

Examples are provided below:



Type of Chemical Reaction: **Combination**



Type of Chemical Reaction: **Decomposition**

EQUATION

TYPE OF REACTION













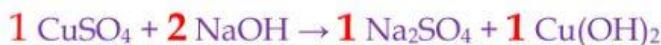
Section C: Identifying Single and Double Displacement Reactions

Balance the equations below. Indicate the type of displacement reaction by writing SINGLE or

DOUBLE in the space provided. Examples are provided below.



Reaction: Single Displacement



Reaction: Double Displacement

EQUATION

TYPE OF REACTION

